

Table 1: May 28, 1997 - Subsystem Status.

SS No.	SS Lead	Status	Problems
1.0	Escuadra /Cooper	<ul style="list-style-type: none">• Updates to the SS1 code to fix problems found in the analysis of TRMM SIM #2 data that could be fixed in the code. Revised Count Conversion offsets are also being worked and will be added to the code. New runs of the TRMM SIM #2 have begun. New problem with elevation conversion is being worked and reruns will occur when the fix to the code has occurred. (Anselmo, Cooper, Escuadra, Hess)• Analyzing data from TRMM SIM #2. (Hess, Nguyen, Rodier, Spence, Weaver)• Continuing development of the Release 2 flight ready system. (Anselmo, Cooper, Escuadra, Hess, Rodier)• Delivery Memo sent to CM for code delivery to DAAC at the end of June. (Escuadra)	

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2.0	Chang	<ul style="list-style-type: none">• Checked and modified the ES8, ES4, ES4G, and ES9 comparison programs and makefiles for the Release 2 delivery to the DAAC. ES8 format had been changed since the Release 1 delivery and the F90 compiler was changed from NAG 32-bits to SGI 64-bits. (Chang)• Completed and delivered the Delivery Memo for the Release 2 delivery to the DAAC to the CM team. (Snell and Chang)• Cleaned and tarred the ERBE-like directories and files for the Release 2 delivery to the DAAC. (Chang)• Worked on ERBE-like Subsystems Test Plan for the Release 2 delivery to the DAAC. (Chang and Snell)• Completed writing metadata to ES8-HDF, ES9-HDF, ES4-HDF files. (Snell)• Completed the ES8 plotting package including ES8 reading, ES8 ppm and ES8 gif generating programs and scripts to make ES8 plots on Web. (Liu).• Reprocessed 85/04 and 86/01 ERBS data on samantha through ERBE-like subsystems using old ADMs and new snow map and thresholds to produce ES9 and ES4G files to Dave. The results from the 05/10/97 run for 85/04 ERBS data on samantha were not good. (Chang)• Modified the new ADMs version of ERBE-like inversion code and processed 2 days of ERBS data to write out the latitude, longitude, the sigma level, the geotype, the SW and LW fluxes, and the scene ID of all points that exceed 3 sigma to a separate file for Dave. (Chang)• Worked with Dave, Dong, and Patty on the 8 sigma problem related to the new ADMs which is used by the ERBE-like inversion code. (Chang)• Attended a session of CODINE training for LaTIS at the DAAC. (Chang)	
3.0	Chang	Combined with above.	

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4.1	Murray	<ul style="list-style-type: none">• Worked on integration of an overhead CRH extraction and updating algorithm. (Sun-Mack)• Tested Alice Fan's new metadata wrappers. (Sun-Mack)• Integrated new Bidirectional and directional models. (Sun-Mack)• Worked with Carol Tsai (Hughes) and Rich Slywczak (TSDIS) to verify that the toolkit cannot read metadata on the VIRS 1B product produced by TSDIS. Began design of a module to read and parse VIRS 1B metadata as HDF attributes. (McIntire)• Downloaded TRMM Simulation #2 VIRS 1B data from TSDIS. (McIntire)• Updated function that returns imager start and end times to return the times in ASCII UTC A format and delivered to clouds team. (McIntire)• Completed initial design, coding, and testing of WriteMeta module in C (with a lot of help from Alice Fan) and forwarded to Instrument for more testing. Began writing a fortran 90 wrapper for C WriteMeta routine. (McIntire)• Modified nature of access to the Parameters retrieved from PCFile. (Murray)• Tested the integration of overhead CRH algorithm. (Murray)• Made repeated attempts to process Oct. 7 through Clouds/Inversion. (Murray)	
4.2	Murray	Combined with above.	
4.3	Murray	Combined with above.	

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4.4	McKinley	<ul style="list-style-type: none">Resolved minor discrepancies in high performance square. (Miller)Successfully tested subsystem with first 12 hours of October 7, 1986 with large variety of scan modes. (McKinley, Miller)Corrected version of JULCAL subroutine in cereslib module ceres_time was submitted and placed in cereslib. The correction was to properly handle time transitions across top of second, minute, hour, day, month, year, and leap day. (McKinley, Stassi)Coordinating of quality control, product specific metadata, and quality assurance flag with science team. (McKinley, Miller)Researched and prototyped several new methods to determine cloud layers at the footprint level. (Miller)	
4.5	Nolan	<ul style="list-style-type: none">Continued work on Subsystem 4.5 and 4.6 Metadata and QC parameters definitions. (Nolan)Initiated work to define Subsystem 4.5 and 4.6 production rules. (Nolan)Continued prologue documentation for the SSF to HDF post processor software. (Franklin)Continued testing of Metadata wrappers. (Franklin)Completed tests to determine optimal number of records to be written to the HDF file at one time to reduce the execution time of the SSF to HDF post processor code. (Franklin)Initiated work to create an HDF file from the SSF containing only Vdatas. (Franklin)	
4.6	Nolan	Combined with above.	

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5.0	Coleman	<ul style="list-style-type: none"> • So that the deltas between the initial and constrained values stored on the CRS and SYN products make sense to the user, the initial values used by the radiative transfer model for aerosol optical depth, skin temperature, and precipitable water have been added to the structures of these two products. (Gupta, Coleman) • Incorporating Fred's logic to use the surface elevation from the SSF instead of the MOA. These changes ripple into the temperature, humidity, and ozone profiles for the three floating levels at the surface. (Gupta) • Fred's changes to the routines that determine the initial skin temperature used by the model have been tested and approved on a 100-record test run. Now need to perform a full one-hour test run. (Coleman) • Marked up a copy for Fred's review of the affected module for the eventual addition of cloud overlap conditions. While this will not be ready to go at the time of DAAC delivery, we know it is coming and Fred wants to "put in the plumbing before we sheetrock the place." (Coleman) • Completed package to print CRS records requested by an user. (Gupta) 	
7.2	Coleman	Combined with above.	
12.0	Coleman	<ul style="list-style-type: none"> • Obtained October '86 TOMS ozone data and can now eliminate portion of Subsystem code that used ISCCP ozone data, which will not be used in production, and still provide October '86 ozone data for testing. (Kizer) • Made and delivered all necessary aerosol optical depth plots for Don Cahoon's analysis of which years of Pinker data to use in building the aerosol optical depth climatology. (Kizer) • Streamlined MOA graphics package using information obtained from IDL class. Now working on a GUI interface. (Kizer) • Added u and v wind vectors at the surface to MOA product, as requested by Tom Charlock. Code working for DAO input. (Kizer) • Reviewing MOA_IO module prior to giving it to CERESlib. (Coleman, Kizer) 	

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7.1	Jimenez	Combined with below	
8.0	Jimenez	Combined with below	
10.0	Jimenez	<ul style="list-style-type: none"> • Began testing the visible optical depth averaging routine. (Jimenez) • Began modifying code to add optical depth interpolation methods received from Dave Young. (Jimenez) • Modified the TISA averaging input data routines to accommodate new routines from SS6 and SS9. (Jimenez) • Began looking at the new surface algorithms to be used for SS10. (Jimenez) • PostMoa module updates were completed and code testing was performed using test data. (Raju) • Tsi_type_mod module routines which handle writing SS7.1 output files and the Secondary Index files were updated, code testing was performed with test data. The code and the updated README file was sent to Joe Stassi to be included in CERESlib. (Raju) • Started updating related module code to account for the new changes to tsi_type_mod module. (Raju) 	
6.0	McKoy	<ul style="list-style-type: none"> • Completed updating the FSW and SFC I/O modules. These modules have been accepted by the TISA Averaging subsystems and delivered to CERESLib. (McKoy) • Continued updating the type definitions and averaging routines within the code. (McKoy) • No status update on the cloud category algorithm. (McKoy) • Began looking into how much work is left on the file boundary problem. (McKoy) • Received the algorithm for the cloud weighting of cloud properties from Dave Young. (McKoy) 	
9.0	McKoy	Combined with above.	
11.0	Stassi/ Fan	<ul style="list-style-type: none"> • Completed routines to navigate the GOES Canadian data using the McIDAS navigational routines. Produced plots to show to Tak and Dave. Tak said that the plots look good. (Stassi, Mitchum) • Still working the calibration equations for the GOES Canadian data. (Wong, Young) • Have started integrating the Meteosat navigational routines into GGEO. (Stassi) 	

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CERESlib Stassi/ Fan		<ul style="list-style-type: none"> • CERESlib has been delivered to the CM team with Delivery Memo and Test Plan. (Stassi) • Prior to the CERESlib delivery, a number of CERESlib updates were made, including many data product modules. The list of these updates was sent out to the CERESlib distribution list. (CERES Analysts) • A problem in the library subroutine julcal was found, which creates a negative hour and thus an incorrect metadata string. It was fixed by the new modified julcal. (McKinley, Snell) • A new subroutine getenv, get environment variable, was added to the CERESlib. (McIntire) • A through test was conducted on the need to close data files before calling WriteMeta. It was determined that closing the data file is a requirement. (Franklin, Jimenez, Nolan, Fan). • Continued testing the Writemeta routine with the SGI compiler. The routine compiles and successfully executes a test program, but it caused a core dump for SS4.1. Apparently the problem is that the SGI compiler does not handle allocate statements and optional parameters well. Here are two work arounds for the subsystems which use SGI compiler 1). use the C writemeta wrapper which uses no optional parameters 2) add certain print statements in the f90 subroutine. (Fan, Snell) • Tested metadata wrapper using the SGI V7.1 (Cray) F90 compiler. It broke the compiler. Made two test cases for SGI to debug. (Fan, Stassi) • Modified the SetMeta subroutine to get instrument and platform short name from PCF instead of decoding from the ESDT shortname. (Fan) • Modified the SetInputPointer subroutine to collect input files from ProductSpecific array besides OpenFile subroutine and InputPointer array. (Fan) • A C version WriteMeta is under test by SS1. (McIntire). 	
CM	Ayers	<ul style="list-style-type: none"> • Four scripts which will further automate the CM process were written. Two pre-delivery memos were delivered to the DAAC. (Ayers, McKoy) 	

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IST	Flug	<ul style="list-style-type: none">• Built BDS snap files for day 8 and day 9. (Nguyen)• Merged snap files and BDS snap files for day 8 and day 9 of sim#2. (Nguyen)• Continuously checked files from TRMM simulations for the four work stations: Blackhole, Opticalmom, Lposun and Flug during sim#2. (Nguyen)	